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\* INDIANA SINCLAIR-TIMEX USERS GROUP NEWSLETTER \*  
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December 1986

Editor-Frank Davis

NEXT MEETING

The next meeting of the Users Group ISTUG, will be at the home of Paul Holmgren, the Mad Programmer, as he is known to his friends. His address is 5231 Wilton Wood Ct., Indianapolis, IN, 46254. The meeting will start at 1:30 PM on January 24, 1987. For those needing directions, give Paul a call at 317-299-6002.

This meeting will center around the topic of using a modem with your computer in order to communicate with other users or with computer bulletin boards. We will discuss the software available and how to use it so that telecommunicating can be an enjoyable and inexpensive use of your computer. If you have some questions or difficulties with modems or software for them..... this will be an excellent time to get this taken care of. If time permits we will also touch on the subject of the use of databases on the Timex and the Sinclair Computers.

There will be an added bonus at the next few meetings for those who attend. We will be giving out door prizes to someone at each meeting. The retail price of these computer related items will be worth more than the price of your membership to you. The reason we are doing this is very simple, we enjoy having more people at these meetings. This is because each of you has something to give that I and all will benefit from. The more members who attend, the more computer experience and knowledge we all have to pick from. So do your very best to attend, and bring a friend or an acquaintance. By the way I was recently asked if it was okay to have spouses to attend, and the answer is yes. The same applies to children old enough to have an interest in the computers.

Officers of the club are not eligible for door prizes.

2ND ANNUAL MIDWEST TIMEX-SINCLAIR COMPUTERFEST

The next Computer Fest is fast approaching us and I want to take some time to tell each and everyone of you about it. It will end up being the biggest event for the users of our computers for the year 1987 and I say that with an absolute lack of modesty.

This Fest will be held on May 2nd and the 3rd at the Holiday Inn-North, Indianapolis, Indiana 46268. This inn is a Holidome-a complete, full service hotel facility incorporating the finest in guest rooms, meeting and banquet facilities. It features a complete, on-premises indoor recreation center. This includes a large heated pool, jacuzzi, separate men's and women's saunas, billiards, ping pong, putting green, wide screen TV, etc. But the main reason you will want to go to this event is that most, if not all, of the Timex, Sinclair and QL dealers of the nation and Canada will be there. You will get a chance to see all of the hardware and software, IN PERSON!

The Inn is located right off of I-465 north of Indianapolis and is only a short drive from the airport. The Holiday Inn has a bus, van and a station wagon for shuttle service to the airport. When you get into town give them a call and they will be over to pick you up.

For those of you that for whatever reason decide you need a cab from the airport, the fare is between \$13 and \$15, which is cheaper than the \$35 that was charged by cabbies for the Fest we held last year in Cincinnati, Ohio. That was one of the very few points that was not ideal in our 1986 Fest.

The schedule for the Midwest Timex-Sinclair Computer Fest is as follows. On May the 1st at 8 PM there will be a banquet. The way one gets invited to this banquet is by one of several ways; work as a volunteer on the T-S Computer Fest committee (and we do need some more assistance), attend the Fest as an active worker for a User Group that has a table at the Computer Fest, or as a Vendor of hardware and software displaying at the Fest. What are the advantages of going to this banquet? This banquet is only open to the above and will be attended by all of your favorite programmers, hackers and writers, along with the many vendors to whom we owe a lot of the continued interest in our computer line. There is a separate charge for this working banquet. It will be announced at a later date. This banquet will give us a chance to answer any questions about the show and facilities for the vendors in a relaxed atmosphere.

The schedule for the 2nd of May will consist of the doors opening for the Fest at 9 AM and being open till 6 PM. The seminars and lecture schedule will run from 10 AM till 5 PM that day.

The 3rd of May the doors will open up at 9 AM and remain open till 5 PM. The Lectures and seminars will run from 10 AM till 4 PM on Sunday. On both days in a separate area we will have tables set up so that those attending will be able to swap and flea market used hardware, software and computer publications. This is open to non-vendors and no pirating of software will be allowed. It will be okay to exchange public domain software and freeware, along with the customary handling of shareware. There will be no charge for this, but it is expected that no one attempt to hog the area for the entire time period; we ask for all to be given a chance at this area.

The price of admission to all of this is very modest. For those wishing to pre-register for the Fest the charge is \$4 for an individual and \$7 for a family up till 3-30-87. After this date and at the door the price is \$6 for an individual and \$9 for a family. Make all checks out to the Midwest Timex-Sinclair Computer Fest. When writing about the Fest be sure to write very legibly, type or use a word processor. We had some people last year whose name and address we could not make out from their handwriting, and we were unable to respond to them due to this. I don't want someone getting upset over something as small as this. When writing tell us how many you expect in a family group and if you wish to have your pre-registration confirmed then enclose a SASE. Send your check to the Midwest Timex-Sinclair Computer Fest, c/o Frank Davis, 513 East Main St, Peru, IN 46970.

The price at the Holiday Inn is a flat rate of \$52 for a room regardless of the number of people in the party. This is a commercial rate and below the usual price. To get this rate you must mention that you are attending the Midwest Timex-Sinclair Computer Fest. The phone number is 317-872-9790 to make your reservation. If you know you are going then I suggest you book early. The long distance number is 1-800-HOLIDAY.

Other Inns in the direct area of the Fest include the following along with their phone numbers:

- 1) Dillon Inn 1-800-253-7305, 1-317-875-7676
- 2) Dollar Inn 1-317-872-0500
- 3) Drury Inn 1-800-325-8300, 1-317-876-9777
- 4) Red Roof Inn 1-800-848-7878, 1-317-872-3030
- 5) Signature Inn 1-800-822-5252, 1-317-875-5656
- 6) Embassy Suites 1-800-362-2779, 1-317-872-7700

This gives a vast choice for motel accommodations. If there are any questions that I have not already covered on the Fest send me a SASE or leave a message on our ISTUG BBS at 1-317-898-3903.

#### COMPUTING TIPS

Have you been using your computer so much that you notice that the keyboard characters are growing faint? Or perhaps you just want to prevent that from happening in the first place. The solution is easy, apply a thin coating of clear finger nail polish over the keys. Be careful not to apply too much and not to let it drip over the edges and all should be okay. It should last a long time without needing another application.

Many of you may have heard that the one chip that you cannot find a replacement for in your TS2068 when it goes out is the SCLD (stands for Standard Cell Logic Device). This is the heart and the brain of the TS2068. If it goes out you can either send it in to TIMEX for repair or you can send to C.A.T.S., P.O. Box 725, Bladensburg, MD 20710. They do happen to have a limited supply of these at the price of \$20 each, postage and insurance included, or 3 or more of them for \$18 each. You will also need to get hold of a JEDEC 68 conductor mount socket (make sure it's a plastic socket and not a ceramic socket) which will cost you about \$12 for the socket. These may be obtained from Electronics Plus, 9600 Baltimore Blvd., College Park, MD 20740, and the phone number is 301-441-9009. You may be able to get it cheaper locally. You need to have had some experience at electronics to do this and make sure you use a small soldering iron and not in a hurry. If you depend on your TS2068 the way I do, or just want to set the parts aside for the future, then jump on this offer.

While on the phone with Tom Bent today he told me that in about a month from now he will be offering through Tom Woods a new Non Volatile Ram cartridge in kit form. This will be set up for 64K as opposed to their present board which is only 32K. You may also piggyback the ram chips and make it a 128K NVM! What a great way to add memory that never forgets to your computer. The kit will not include the ram chips, which you may buy from them or from your own source. It will be priced at around \$40. This is quite a bargain. The 32K cartridge up till recently was selling for \$109 in finished form, and is presently for sale at \$89.

An excellent source of support for those who are ZX81 or TS1000 Users is ARCTAN COMPUTER VENTURES, 1 Foxwell Square, Southfields, Northhampton NN3 5AT, England. They offer software and a magazine exclusively for those computers. Write to them for complete information and prices. It is a good idea to send along an International reply coupon which may be obtained from your local Post Office, in order to cover postage. All reports on their service have been excellent.

## THE PROGRAM

by Basil Wentworth

Here's a program that lets you generate a screen display in BIG letters--each letter is 3x3 times the normal size. The LIST ing given is for the ZX81/TS1000.

Use of the program is very straightforward--just write the text you want in Lines 10, 20, 30, etc., with RETURN as Lines 15, 25, 35, etc. Each line is limited to no more than 10 characters, and the screen doesn't have room for more than 5 lines of text.

A coding chart is included, to make it easier for you to follow the squiggles for the ZX81 program.

One application for the program could be to display the following message:

```
10 LET T$="INTRUDER"  
15 RETURN  
20 LET T$="DETECTED"  
25 RETURN  
30 PRINT,,"POLICE BEING NOTIFIED"  
40 STOP
```

Leave your monitor in some conspicuous place when you go out for the evening, and any burglar seeing it will follow one of the three options described below.

1. He might take the message at its face value, and get out pronto.

2. He might spend so much time analyzing the program that he'll still be there when you get home, and you might find such a computer fan a congenial friend.

3. He might just steal your whole computer set-up.

Or he (or she) might do something entirely different--you never can tell with burglars.

Or if you have a friend named Daniel visiting your den, try MENE MENE TEKEL UPHARSIN, if you can handle Babylonian script. If you do, nobody will accuse you of lion.

### NOTE:

by Carol Davis

The listing for the above program is on the next page. In a future newsletter we will include the TS 2068 version. Also attached are the instructions for the modification of the Westridge 2050 Modem, courtesy of Paul Holmgren. Detailed instructions for the similar modification of the TS 2040 Printer will be included in the near future.

### WORKING LUNCHEON

We are going to have a meeting and working luncheon for those who will be working on the 1987 Midwest Timex-Sinclair Computer Fest. All who are intersted should plan to attend, and if unable to make it let me or Paul Holmgren know about it by dropping us a line or leave a message on ISTUG's BBS at 1-317-898-3903. We do need a bit more assistance on this event. It will be held at the Holiday Inn-North off of I-465, 3850 DePauw Blvd., Indianapolis. The date is January 31 at 1:30 PM. This is located near the Pyramids.

Frank Davis-Editor



```

5 GOTO 2000
10 LET T$="BASIL"
15 GOSUB 5000
20 LET T$="LOVES"
25 GOSUB 5000
30 LET T$="JOCELYN"
35 GOSUB 5000
9999 STOP
20000 REM DATA
20010 LET S$=" "
20015 REM " "
20020 LET S$=S$+" "
20025 REM " "
20030 LET S$=S$+" "
20035 REM " "
20040 LET S$=S$+" "
20045 REM " "
20050 LET S$=S$+" "
20055 REM " "
20060 LET S$=S$+" "
20065 REM " "
20070 LET S$=S$+" "
20075 REM " "
20080 LET S$=S$+" "
20085 REM " "
20090 LET S$=S$+" "
20095 REM " "
20100 LET S$=S$+" "
20105 REM " "
20110 LET S$=S$+" "
20115 REM " "
20120 LET S$=S$+" "
20125 REM " "
20130 LET S$=S$+" "
20135 REM " "
20140 LET S$=S$+" "
20145 REM " "
20150 LET S$=S$+" "
20155 REM " "
20160 LET S$=S$+" "
20165 REM " "
20170 LET S$=S$+" "
20175 REM " "
20180 LET S$=S$+" "
20185 REM " "
20190 LET S$=S$+" "
20195 REM " "
20200 LET S$=S$+" "
20205 REM " "
20210 LET S$=S$+" "
20215 REM " "
20220 LET S$=S$+" "
20225 REM " "
20230 LET S$=S$+" "
20235 REM " "
20240 LET S$=S$+" "
20245 REM " "
20250 LET S$=S$+" "
20255 REM " "
20260 LET S$=S$+" "
20265 REM " "
20270 LET S$=S$+" "
20275 REM " "
20280 GOTO 10

```

LTR	SHIFTED	GRAPHIC	CHR\$S:
A	T	7 4 U 6 5 S > 5	
B	E	7 4 S > 7 4 U 6 1	
C	T	7 4 S > > Y 6 1	
D	E	7 4 S > > S 6 1	
E	E	7 1 E 1 > U 6 4	
F	E	7 > E 1 > S > >	
G	T	7 4 S 3 4 Y 6 1	
H	S	> S E 7 5 S > 5	
I	> R	1 > 6 > > 6 4	
J	> > S	> > S Y 6 1	

```

5000 REM INTERPRET TEXT
5010 LET A$=""
5020 LET B$=""
5030 LET C$=""
5040 FOR F=1 TO LEN T$
5050 LET T=9*(CODE T$(F)-38)
5055 IF T$(F)="" THEN LET T=9*2
6
5060 LET A$=A$+S$(T+1 TO T+3)
5070 LET B$=B$+S$(T+4 TO T+6)
5080 LET C$=C$+S$(T+7 TO T+9)
5100 NEXT F
5110 PRINT
5120 PRINT A$
5130 PRINT B$
5140 PRINT C$
5500 RETURN
9000 REM SPACE
9010 SAVE "ALPHA"
9100 REM INSTRUCTIONS
9110 CLS
9120 PRINT "ENTER TEXT IN"
9130 PRINT "LINES 10, 20, 30, ETC., WITH GOSUB"
9140 PRINT "5000 AFTER"
9150 PRINT "EACH LINE."
9160 PRINT "THEN RUN."
9170 PRINT "THERE CAN BE"
9180 PRINT "UP TO 5 LINES"
9190 PRINT "OF TEXT; EACH LINE M"
9200 PRINT "AY INCLUDE"
9210 PRINT "NO MORE THAN 10 CHAR"
9220 PRINT "ACTERS."
9230 PRINT "EACH LINE MU"
9240 PRINT "ST CONSIST ONLY"
9250 PRINT "OF LETTERS AND SPACE"
9260 PRINT "S."
9270 PRINT "WHEN READY,"
9280 PRINT "PRESS 'ENTER'."
9290 INPUT T$
9300 CLS
9310 LIST

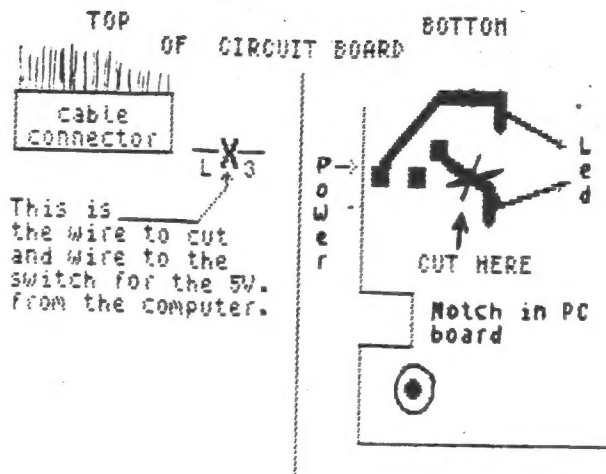
```

LISTING FOR "ALPHA"--ZX81/TS1000

K	S	T	>	E	4	>	S	6	4
L	>	>	>	>	>	>	>	>	>
M	>	>	>	>	>	>	>	>	>
N	>	>	>	>	>	>	>	>	>
O	T	>	4	S	>	S	Y	6	1
P	E	>	4	U	6	1	S	>	>
Q	E	>	4	S	4	S	Y	6	1
R	E	>	4	U	6	1	S	>	>
S	E	>	4	U	6	1	S	>	>
T	E	>	4	U	6	1	S	>	>
U	S	>	S	S	>	S	Y	6	1
V	S	>	S	S	>	S	Y	6	1
W	S	>	S	S	>	S	Y	6	1
X	Y	6	1	>	S	>	T	Y	4
Y	Y	6	1	>	S	>	S	>	>
Z	7	7	5	>	T	>	6	6	4
SPACE	>	>	>	>	>	>	>	>	>

NOTE: ">" INDICATES A SPACE  
(NOT IN GRAPHICS MODE)

CODING CHART FOR ZX81/TS1000



## How to turn off the Juice. Paul Holmgren

This modification adds an on/off switch and a pilot light to the Westridge 2050 MODEM. I made these changes to my modem as well as a similar addition to the 2040 printer.

The drawing to the left shows both sides of the circuit board you need to work on.

You need a double pole/single throw mini switch, if that's not handy then a double pole/double throw will do. Most any LED will work, also a resistor about 5K. It will prevent blowing the LED as well as controlling its brightness, the lower the resistor's value the brighter the LED.

I placed the switch in the back panel and the LED in the front panel near the word MODEM. Since the panels are loose it's easy to drill the holes.

Examine the drawing; note that you are going to work on both sides of the circuit board. You are going to cut/remove a wire from the top of the board and cut 1 trace on the bottom of the board. The rest is just wiring in the switch and LED.

When I got this idea I soon figured that turning off the 9V. supply wasn't enough. So I found the 5V. feed from the computer and control that also.

Let's work on the top side first. The ribbon cable that plugs into the computer bus carries the 5V. to the modem on lead 1. It's jumpered. The boards that are stenciled label it L3. It's right where the drawing shows it. Cut it, remove and remove the pieces. Wire in the same holes one-half of the switch. The drawing has a X showing the cutting action. That's the wire and its position on my MODEM.

Now the 9V. and LED. The power jack is that black thing next to the phone jack. You're going to cut 1 trace on the bottom of the circuit board on the power jack. The drawing shows the heavy power traces. The lighter lines show where you will connect 2 wires for the LED. In series with one of the wires connect the 5K range resistor. If at first the LED doesn't work simply reverse the wires on the LED. If it's still dark try reducing the resistor's value. But things should work out. Right? Now wire across the trace you cut. This will go to the other side of the switch.

Button everything up and test it out. By following these directions you should end up as lucky as I did, it worked right for me the first time/